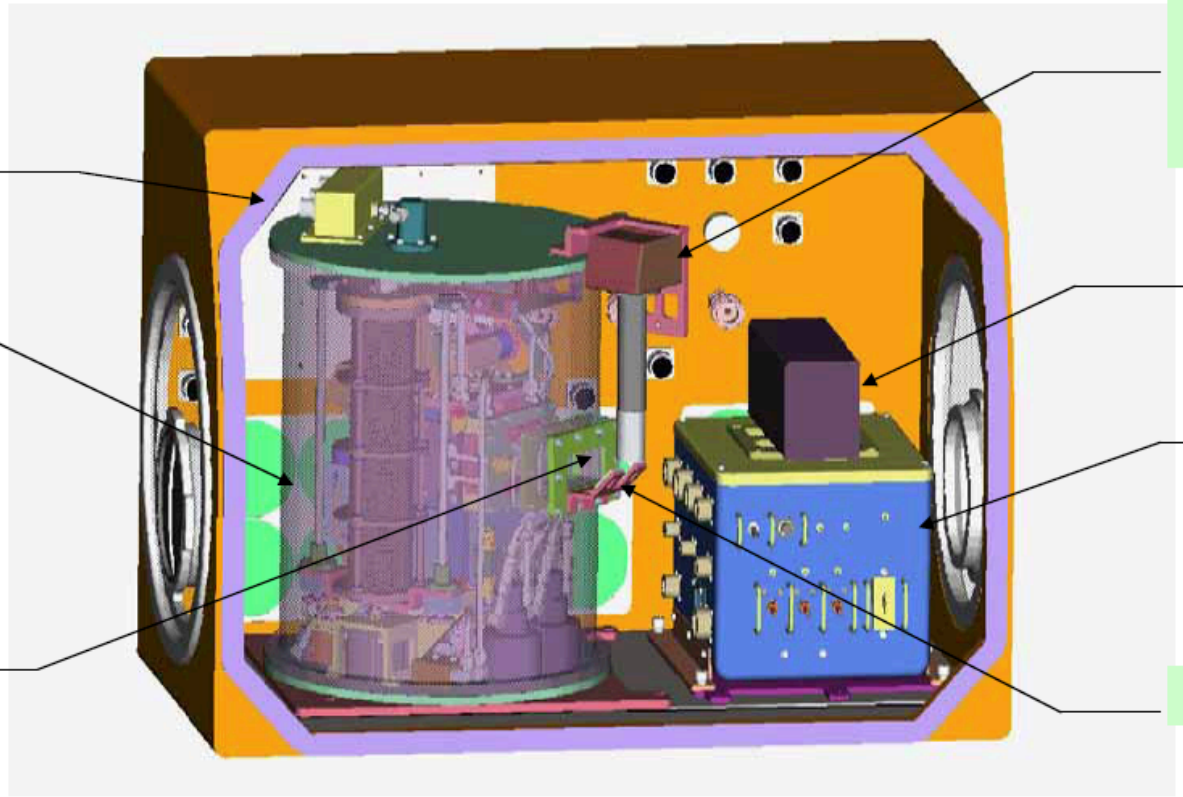
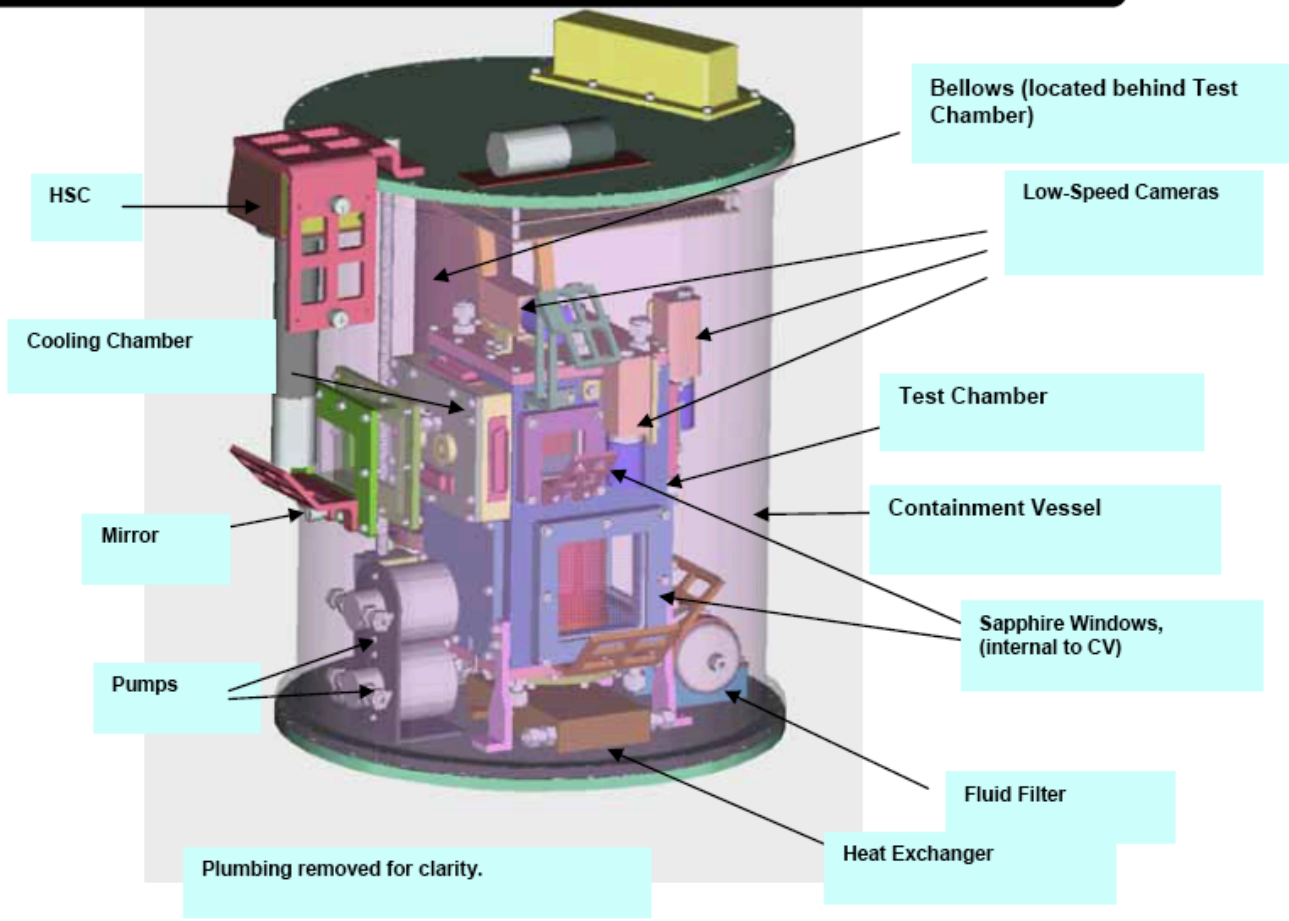
Hardware
BXF

Flight Hardware in MSG



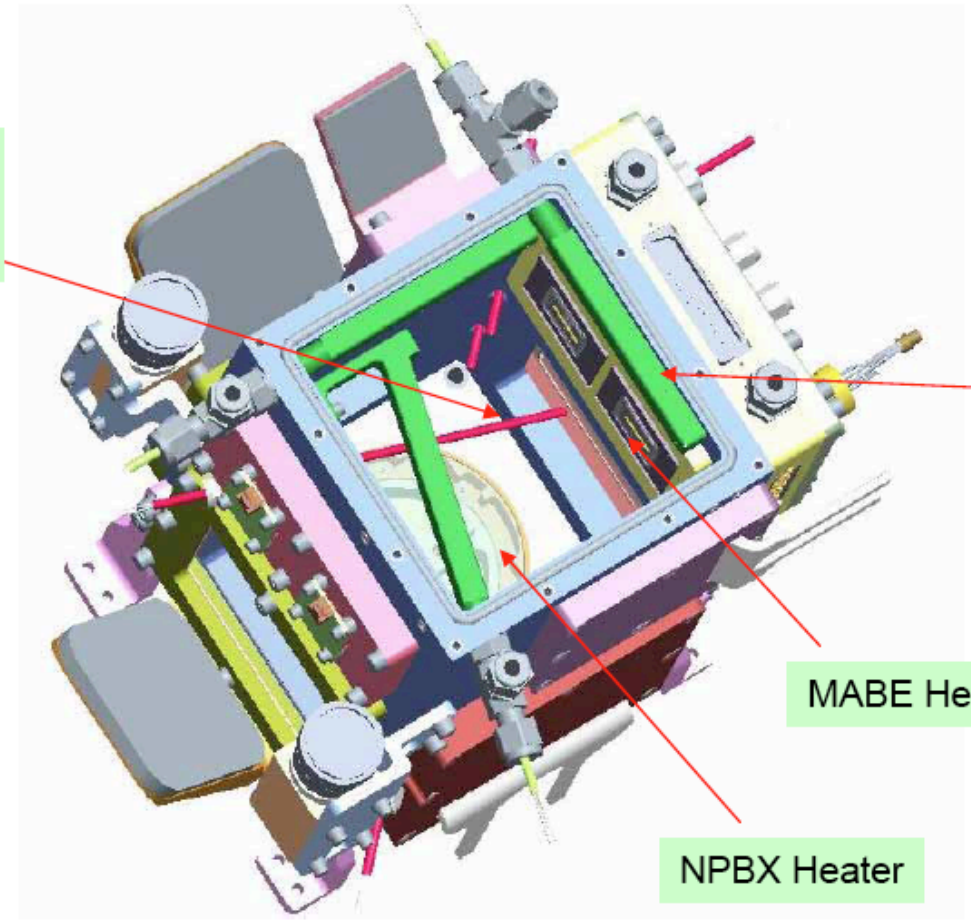
Hardware
BXF

BXF Containment Vessel



Test Chamber
BXF

TC Top View



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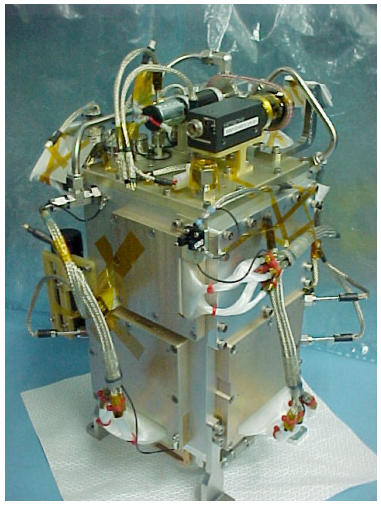
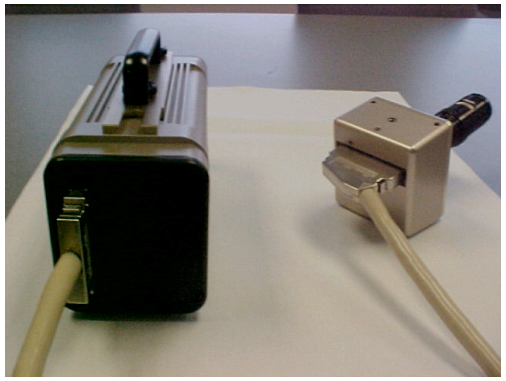
Flight Hardware Components

BXF

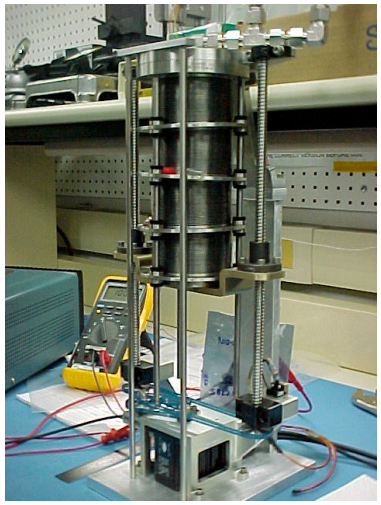


Test Chamber

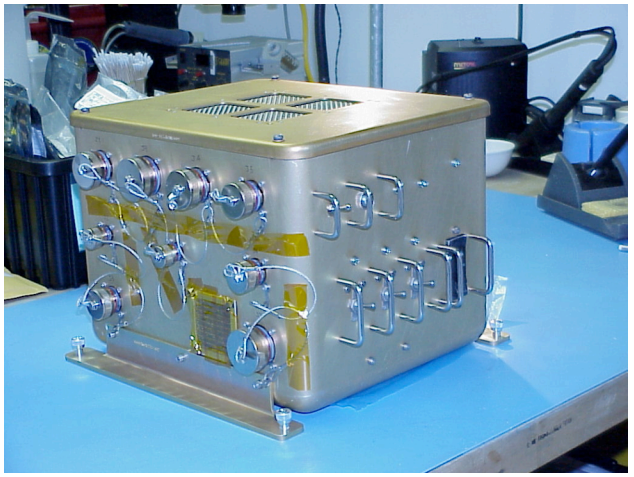
Containment Vessel (CV)
Being Leak-Tested



High Speed Camera (HSC)
Processor & Camera Head



Pressure System Bellows
cycle life test



Avionics Box (AB)

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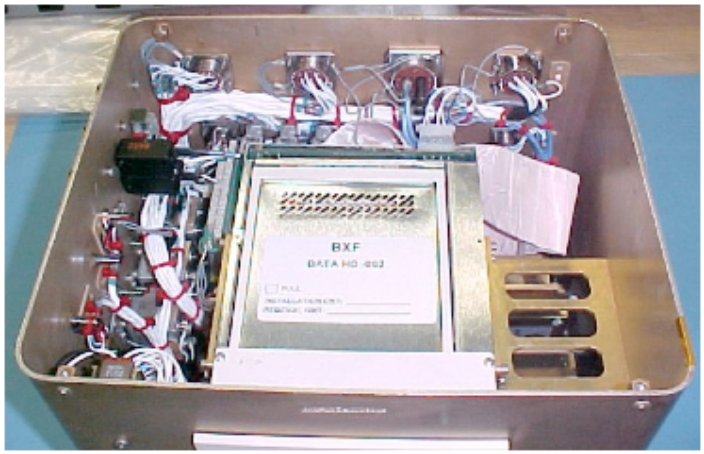
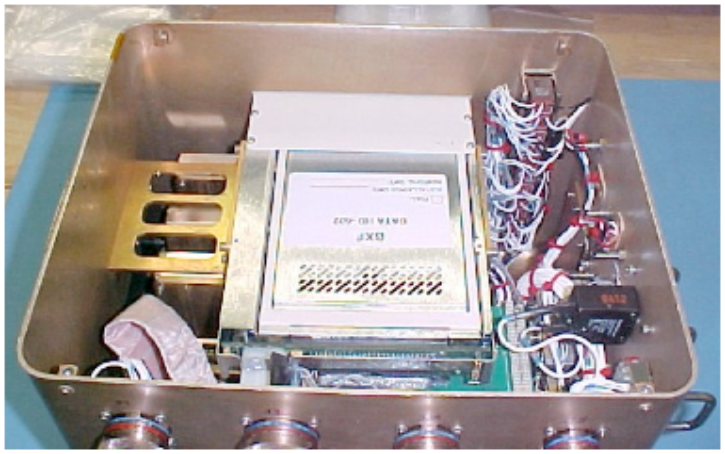
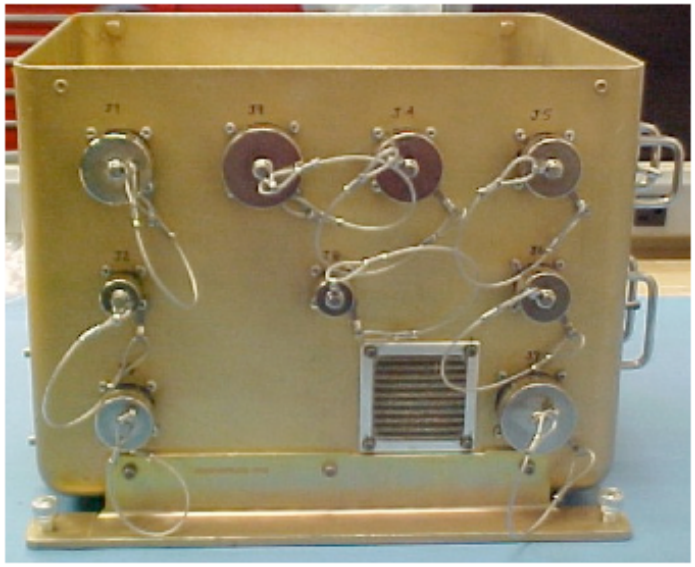
Avionics Box
BXF





Flight Avionics Box - cover removed



Avionics Box Trainer

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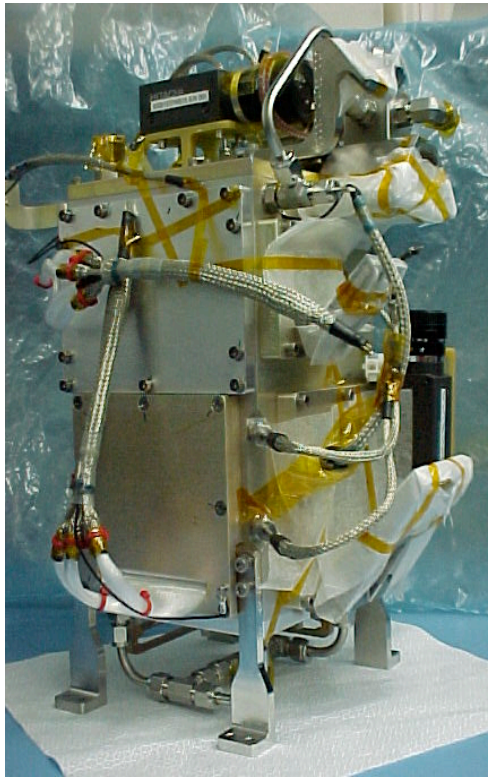
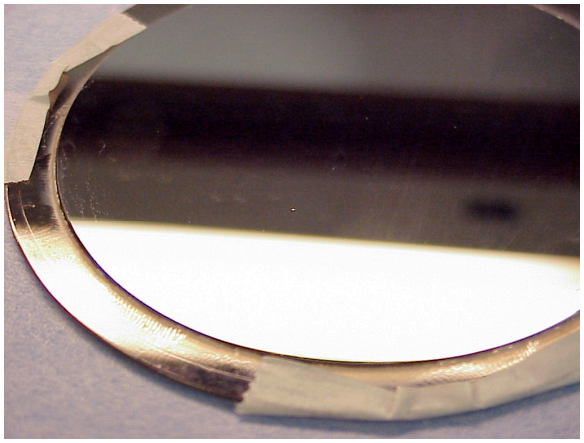
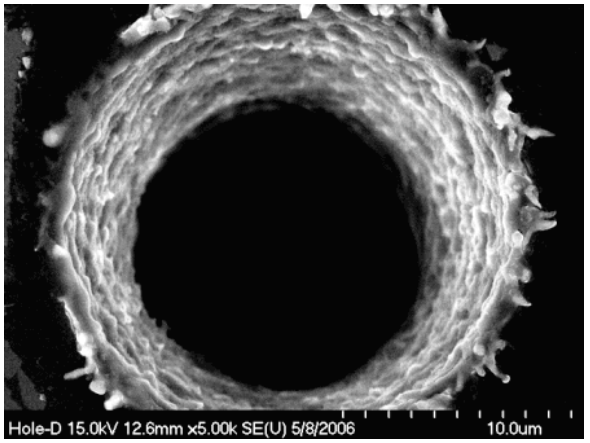
Flight Hardware
BXF



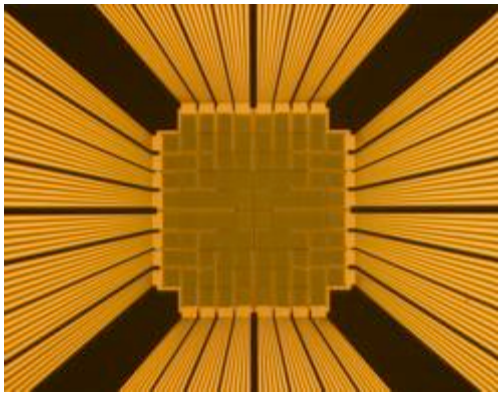
Test Chamber



NPBX Heater, Top Surface



Scanning Electron Microscope image of NPBX heater nucleation site (10 μm diameter hole)



MABE heater array of 96 individually controlled heaters

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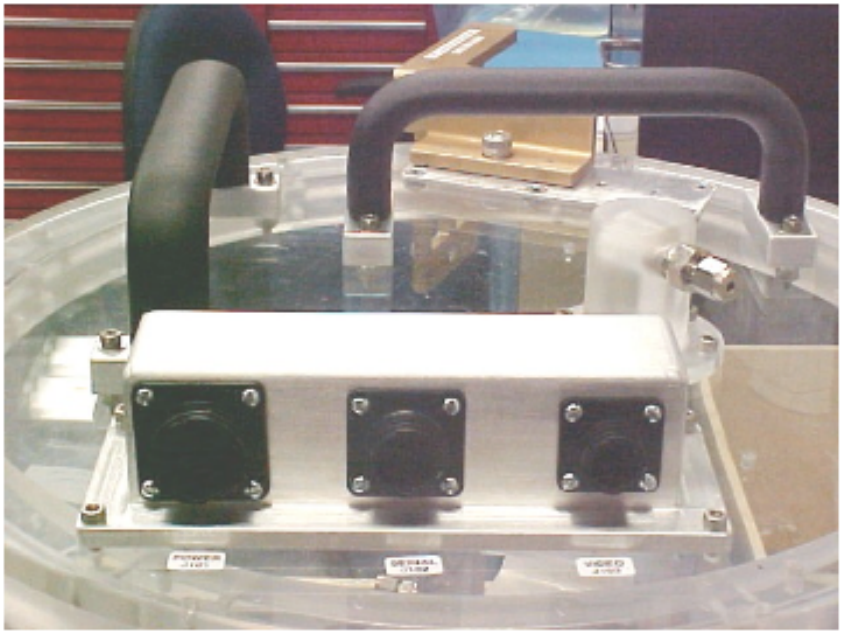
Containment Vessel Trainer

BXF



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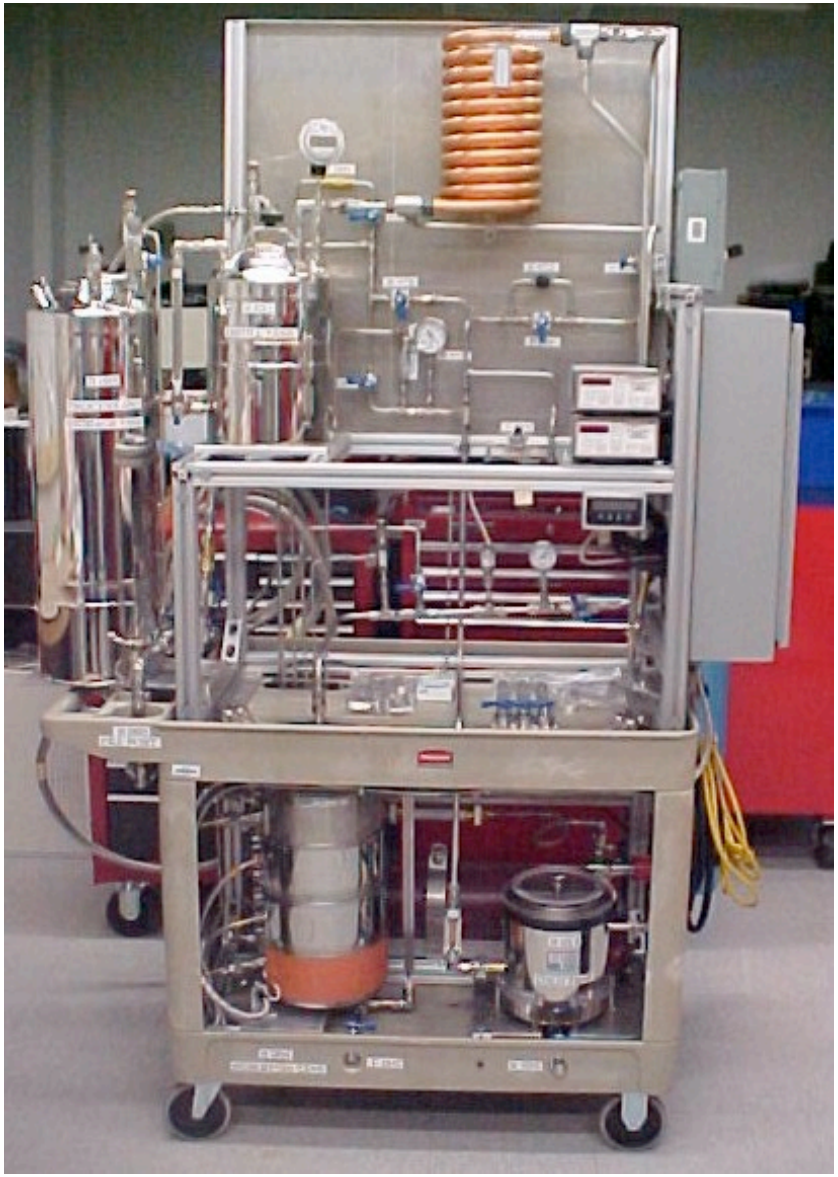
GSE - Fluid DeGas/Fill Cart

BXF



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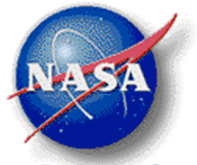
GSE - Rotation Fixture

BXF



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Specifications & On-Orbit Operations

BXF

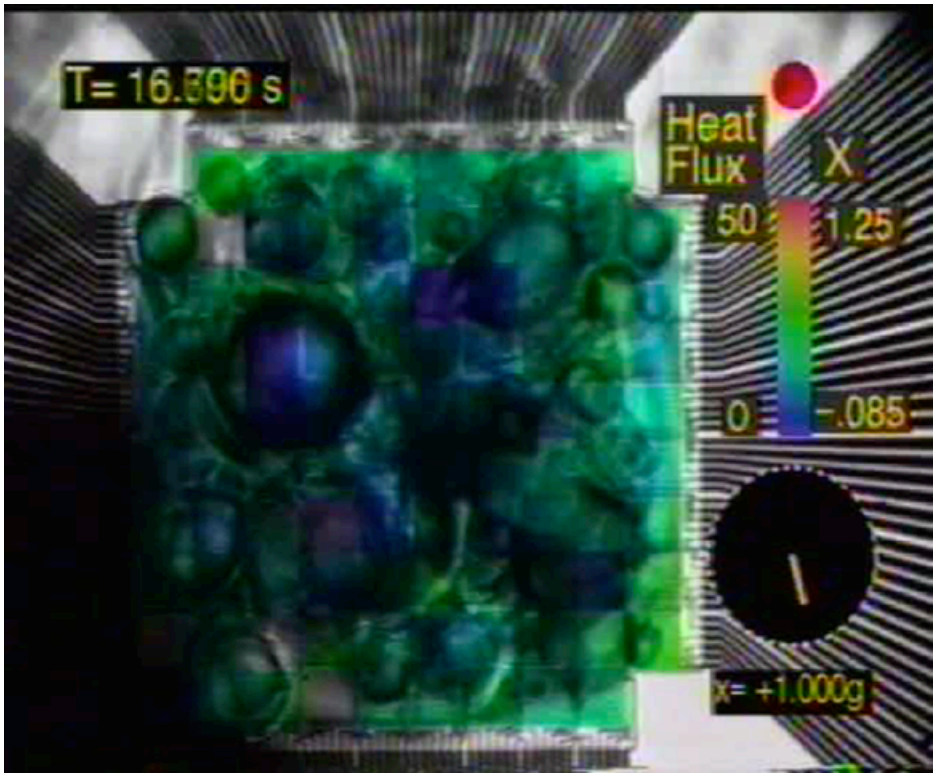
Mass (Kg)16	98.2 (up & down)
Volume (M^3)	0.144
Max Power (kW)	0.777
Crew Time (Hrs)	8.0
Unattended Test Operations (Hrs)	MABE: 784 NPBX: 48

On-Orbit Operations

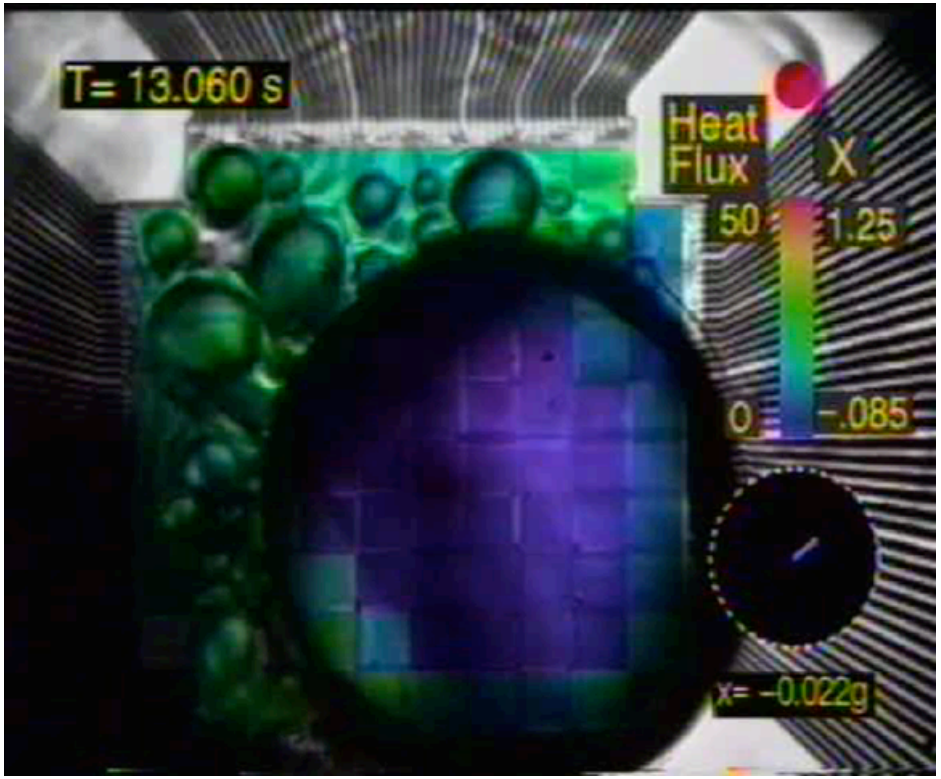
- Install BXF hardware into MSG
  - Includes SAMS TSH-ES installation & SAMS activation
- Set experiment parameters
- Perform experiment and record data
- Downlink data for evaluation
- Stow hardware

BXF

MABE in High g



MABE in Low g



NPBX in Low g